A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01J29/28, 9/22, 31/12				
According to	International Patent Classification (IPC) or to both nati	onal classification and IPC		
B. FIELDS	SEARCHED	100		
Minimum do Int.(ocumentation searched (classification system followed by C1 ⁷ H01J29/28, 29/32, 9/22, 31)	y classification symbols) /12		
	ion searched other than minimum documentation to the	extent that such documents are included	in the fields searched	
Jitsu Kokai	yo Shinan Koho 1926—1996 Jitsuyo Shinan Koho 1971—2004	Jitsuyo Shinan Toroku Koho	1996–2004	
Electronic da	ata base consulted during the international search (name	of data base and, where practicable, sea	ren terms used)	
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
X Y A	WO 02/37522 A1 (Toshiba Corp. 10 May, 2002 (10.05.02), Full text; all drawings Full text; all drawings Full text; all drawings	.), 1336981 Al	1-3,6-10, 13-19,22-24, 27,29-30, 26,28, 4-5,11-12, 20-21,25, 26,28	
			<u> </u>	
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "p" document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family		
Date of the	actual completion of the international search January, 2004 (29.01.04)	Date of mailing of the international sea 10 February, 2004	(10.02.04)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile 1	No.	Telephone No.		



Internal application No. CT/JP03/13823

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages. Relevant to claim No.	
A	JP 54-105959 A (Hitachi, Ltd.), 20 August, 1979 (20.08.79), Full text; all drawings (Family: none)	
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